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11/02/2001	Toshio Ueno	01701/LH	3837
590 10/03/2005		EXAM	INER
FRISHAUF, HOLTZ, GOODMAN & CHICK, PC			LVIN Y
220 5TH AVE FL 16 NEW YORK, NY 10001-7708		ART UNIT	PAPER NUMBER
		2142	
	11/02/2001 590 10/03/2005 HOLTZ, GOODMAN & FL 16	11/02/2001 Toshio Ueno 590 10/03/2005 HOLTZ, GOODMAN & CHICK, PC FL 16	11/02/2001 Toshio Ueno 01701/LH 590 10/03/2005 EXAM HOLTZ, GOODMAN & CHICK, PC FL 16 NY 10001-7708 ART UNIT

DATE MAILED: 10/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

· ·	J	
	Application No.	Applicant(s)
	10/002,744	UENO, TOSHIO
Office Action Summary	Examiner	Art Unit
	Kelvin Lin	2142
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the d	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tire will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed the mailing date of this communication. (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 19 M	<u>ay 2005</u> .	
2a)⊠ This action is FINAL. 2b)☐ This	action is non-final.	
3) Since this application is in condition for allowar		
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.
Disposition of Claims		
4) Claim(s) 1-14 is/are pending in the application.	•	
4a) Of the above claim(s) is/are withdray	vn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-14</u> is/are rejected.	•	
7) Claim(s) is/are objected to.	r election requirement	. 0
8) Claim(s) are subject to restriction and/or	election requirement.	
Application Papers		
9) The specification is objected to by the Examine	r.	·
10) $\boxtimes$ The drawing(s) filed on <u>10 May 2005</u> is/are: a)[	⊠ accepted or b) □ objected to	by the Examiner.
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the correction		
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action of form PTO-152.
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	)-(d) or (f).
1. Certified copies of the priority documents	s have been received.	•
2. Certified copies of the priority documents	•	•
3. Copies of the certified copies of the prior	•	ed in this National Stage
application from the International Bureau		~ d
* See the attached detailed Office action for a list	of the certified copies not receive	eu.
Attachment(s)		-
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail D	·
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/17/05.		Patent Application (PTO-152)

Art Unit: 2142

### **Detailed Action**

#### Response to Amended Specification

1. Amended to the specification is accepted.

#### Response to Arguments

- 2. The Applicant's argument with respect to claims 1-14 have been considered but are not persuasive. Examiner appreciates detail description of prior art.
- 3. In response to applicant's argument that "Neumann does not disclose, teach or suggest a technical support system (or program or method) in which a knowledge base is search based on product information which includes at least a product model and an identification of a problem and which is input as claim content"

The Office respectively disagrees.

4. Neumann discloses that the Dialog Manager receives user's input from the User Interface Agent and returns the system's response. And the user or system can take the initiative in issuing directive or asking questions (Neumann, col.16, I.11-15), which corresponds to the portal section provides web pages as information input and output interface.

Neumann further discloses that regarding to the user type or says "... looking for a product model with an identified problem...", the User Interface Agent sends the request to Dm. The DM ask the NL agent to parse the user input and return a logical form (LF). The NL agent identifies the language of the request, parse the request to generate a language independent LF, and returns LF. Upon receiving the LF, the DM

translate it into an interpretation, taking the state of the dialog into account (Neumann, col.16, I.23-45), which corresponds to the search said knowledge base for solution which match a claim content input to a client web page in a format substantially similar to natural language and converts synonymous term into standard term.

Neumann further discloses that the DM interleaves several different type of knowledge, one of them is knowledge of user interface and presentation of information. The Dm is neutral as o domain and task and works with any task that includes all queries about wine, baseball, etc. The DM will determine what the task is and then determine the proper domain to complete the task (Neumann, col.18, l.14-62), which corresponds to the derived solution based on the extracted items of claim definition information.

5. Therefore, amended claim 1 is rejected. Similarly, claims 9 and 12 are rejected accordingly, based on the reason mentioned above.

## Response to Amended Claims

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Art Unit: 2142

- Claims 1-14 are rejected under 35 USC 102(e)
   as being anticipated by Neumann et al., (US Patent 6735592).
- 2. Regarding claim 1, Neumann teaches a technical support system comprising:
  - a service information portal section which provides web pages as an information input and output interfaces (Neumann, col.14, l.8-11, col.15, l.38-40, col.16, l.11-15);
  - a knowledge base section which stores various claim reports and solutions which correspond to the claim reports and which are provided by engineers (Neumann, col. 5,I.66-67, col. 6, I.1-2, col.18, I.65-67, in which electrical components in a circuit design program corresponds to the provided by engineers); and
  - a claim handling section which searches said knowledge base section for solutions which match a claim content input to a client web page (Neumann, col.16, I.1-2, col.18, I.7-36); wherein said claim handling section is configured to perform an ordinary search of collecting the claim reports from said knowledge base section based on product information, which includes at least a product model and a identification of a problem and which is input as the claim content (Neumann, col.17, I.7-9. col.18, I.30-36), and an extended search of (i) extracting predetermined items of claim definition information each in a standard term from claim details input as the claim content in a format substantially similar to natural

Art Unit: 2142

language (Neumann, col.16, l.23-45), by referring to at least one synonym table which converts synonymous terms having a same technical meaning into the standard term and (ii) then deriving a reduced number of solution candidates, based on a combination of extracted items of the claim definition information, from the claim reports obtained in the ordinary search (Neumann, col.23, l.33-46).

- 3. Regarding claim 2, Neumann further discloses the technical support system according to claim 1, wherein said claim handling section is configured to check a missing item of the product information based on the extracted items of claim definition information, and to fill in the missing item of the product information with the standard term for the corresponding item of claim definition information (Neumann, Table 1, item 6, col. 13, 1.24-26).
- 4. Regarding claim 3, Neumann further discloses the technical support system according to claim 2, wherein said claim handling section is configured to check an error item of the product information based on the extracted items of claim definition information, and requires confirmation s to whether or not the product information is correct, when the claim definition information is inconsistent with the product information (Neumann, col.14, l.42-67).
- 5. Regarding claim 4, Neumann further discloses the technical support system according to claim 1, wherein said claim handling section is configured to check an error item of the product information based on the extracted items of claim

definition information, and requires confirmation as to whether the product information is correct, when the claim definition information is inconsistent with the product information (Neumann, col.13, l.22, col.19, l.2-3, col.27, l.1-3).

- Regarding claim 5, Neumann further discloses the technical support system 6. according to claim 1, wherein said claim handling section includes a synonym table which is referred to in the extended search to convert synonymous terms indicative of a problem into a single standard term (Neumann, col.18, l.41-43, col.20, I.48-49, col.23, 32-46).
- Regarding claim 6, Neumann further discloses the technical support system 7. according to claim 1, wherein said at least one synonym table comprises a synonym table which is referred to in the extended search to convert synonymous terms indicative of a unit corresponding to a problem occurring position into a single standard term (Neumann, col.23, l.34-36).
- Regarding claim 7, Neumann further discloses the technical support system 8. according to claim 1, wherein said at least one synonym table comprises a synonym table which is referred to in the extended search to convert synonymous terms indicative of a cause of a problem into a single standard term (Neumann, col.23, 1.34-36).
- Regarding claim 8, Neumann further discloses the technical support system 9. according to claim 1, wherein said at least one synonym table comprises a synonym table which is referred to in the extended search shown to convert synonymous terms indicative of a treatment for a problem into a single standard

Art Unit: 2142

term (Neumann, col.23, l.34-36).

- 10. Regarding claims 9-11 have similar limitations as claims 1-3.

  Therefore, Claims 9-11 are rejected for the same reasons set forth in the rejection of claims 1-3.
- 11. Regarding claim 12, Neumann further discloses a technical support method using a knowledge base section which stores various claim reports and solutions which correspond to the claim reports and which are provided by engineers, said method comprising:
  - Performing an ordinary search by collecting claim reports
     (Neumann col.17, l.7-9);
  - extracting predetermined items of claim definition
    information, each in a standard term, from claim details input as
    claim content in a format substantially similar to natural language
    by referring to at least one synonym table which converts
    synonymous terms having a same technical meaning into the
    standard term (Neumann, Table.1, item 6, col.13, l.24-26, col.17, l.89, col.23, l.34-36); and
  - performing an extended search by deriving a reduced number of solution candidates, based on a combination of the extracted items of claim definition information, from the claim reports obtained in the ordinary search (Neumann, col.12, l.11-14, col.23, l.33-46).

Art Unit: 2142

- 12. Regarding claim 13, Neumann further discloses a technical support method according to claim 12, further comprising:
  - checking a missing item of the product information based on the extracted items of claim definition information (Neumann, col.13, I.24-26).
  - filling in the missing item of the product information with the standard term for the corresponding item of claim definition information (Neumann, Table.1,item 6)
- 13. Regarding claim 14, Neumann further discloses the technical support method according to claim 12, further comprising:
  - checking for an error item of the product information based
     on the extracted items of claim definition information (Neumann,
     col.16, I.30-40 col.23, I.34-36, ); and
  - requiring confirmation as to whether the product information is correct when the claim definition information is inconsistent with the product information (Neumann, col.16, l.48-67).

#### Conclusion

14. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first replay is filed within

Art Unit: 2142

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE MONTH shortened statutory period, then the shortened statutory period will expire on the date advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTH from the date of this final action.

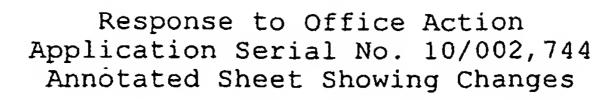
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kelvin Lin whose telephone number is 571-272-3898. The examiner can normally be reached on Flexible 4/9/5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on 571-272-3868. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

09/15/05 **KYL** 

> KAMINI SHAH PRIMAPY EXAMINER





Unit (J)		•	
U02 オプション給紙ユニット	Unit (J)	Unit (E)	
	U02 102 102 102 102 102 102 102 102 102 1	U02 LCF/PFU/PFP U03 Optional/Laser Unit U04 Drum U05 Charger/Grid U06 Developer unit U07 Toner/Cartridge U08 Cleaner unit U09 Process unit in overall U10 Paper transport unit U11 Fuser unit U12 Exit unit U13 ADD U14 ADF U15 Sorter/Finisher U16 Drive Unit U17 Control Panel unit U18 PWA or other electrical circuit U19 Power supply unit/HVT U20 HDD/Expanssion memory U21 Network controller U22 FAX/NCU board U23 Firmware in machine U24 Driver software U25 Network environment U26 Exterior covers U27 Packaging	Expansi

9/15/05/

Unit (J)	Unit (E)
U01 102 103 103 103 103 103 103 103 103 103 103	U01 Paper feeder unit U02 LCF/PFU/PFP U03 Optional/Laser Unit U04 Drum U05 Charger/Grid U06 Developer unit U07 Toner/Cartridge U08 Cleaner unit U09 Process unit in overall U10 Paper transport unit U11 Fuser unit U12 Exit unit U13 ADD U14 ADF U15 Sorter/Finisher U16 Drive Unit U17 Control Panel unit U18 PWA or other electrical circuit U19 Power supply unit/HVT U20 HDD/Expansion memory U21 Network controller U22 FAX/NCU board U23 Firmware in machine U24 Driver software U25 Network environment U26 Exterior covers U27 Packaging U28 Others